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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/573,615	03/06/2007	Walter Dennis Robertson III	11000054-0033	9787	
26263 7599 09002010 ONNENSCHEIN NATH & ROSENTHAL LLP P.O. BOX 061080 WACKER DRIVE STATION, WILLIS TOWER CHICAGO, IL, 60006-1080			EXAM	EXAMINER	
			HOGAN, JAMES SEAN		
			ART UNIT	PAPER NUMBER	
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			09/02/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/573,615 ROBERTSON III ET AL Office Action Summary Examiner Art Unit JAMES S. HOGAN 3752 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 21 June 2010. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 11.13-17.19 and 20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 11,13-17,19 and 20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) ☐ Notice of References Cited (PTO-882) 4) ☐ Interview Summary (PTO-413)
Paper No(s)Mail Date:

1) ☐ Notice of Drathspersor's Patent Drawing Review (PTO-948)
Paper No(s)Mail Date:
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DETAILED ACTION

Response to Arguments

 Applicant's arguments, with respect to Claim 11 have been fully considered and are persuasive. The 35 USC § 102 rejection of claim 11 has been withdrawn in the form submitted in the Non-Final Rejection of March 24, 2010. However, the apparatus of Kelly, with a better explanation of known components can be redefined as a 35 USC § 102 rejection.

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States
- Claims 11, 13, 17, 19 and 20 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 6, 220,569 to Kelly.
- 3. As per claims 11 and 17, Kelly discloses (see Figures 1 and 2) an orifice member (at (15)) defining a first surface, the orifice member having an inlet and an outlet (at (13)), a plunger (51) having a magnetic pole and coil (62) which energizes to move the plunger, the plunger being movable relative to the orifice member; a first guide spring (26) situated between the orifice member and the plunger and having a portion attached to a first end of the pole when the coil is energized, the first guide spring defining a second surface (32), the second surface (32) being sealable against the first surface to

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prevent fluid flow between the inlet and the outlet, the fist and second sealing surfaced being co-planer when the plunger is in its closed position.

- As per claim 13 and 19, the plunger is moved to the open position when the coil is energized.
- As per claim 20, the guide spring of Kelly urges the plunger in the closed position.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims, and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6, 220,569 to Kelly in view of U.S. Patent No. 4,085,921 to Ueda et al

The rejection of claims 11 above serve as the basis for the following.

As per claims, 14-16, Kelly does not teach a second guide spring attached to the second end (aka, proximal end) of the plunger. Ueda et al teaches a solenoid valve having a plunger (88) having flat guide springs (94) on both ends of the plunger, the second spring biasing a plunger into the closed position. Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Kelly with a flat guide springs on the second end of the plunger as suggested by Ueda et al. Doing so would provide additional valve member responsiveness.

Conclusion

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 THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES S. HOGAN whose telephone number is (571)272-4902. The examiner can normally be reached on Mon-Fri, 6:00a-3:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571)272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. H./ Examiner, Art Unit 3752 8/28/10

/Len Tran/ Supervisory Patent Examiner, Art Unit 3752